

Standards Actions— August 2001

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Standards Actions



DOE Technical Standards Program Document Status

07-31-2001

Activity Summary

In Conversion—4

In Preparation—43

Out for Comment—17

Published this Month—0



5-year Review Status

Revision in Progress—6

Reaffirmation in Progress—23

Cancellation Pending—4

Cancellation in Progress—12

Proposed for Cancellation—13

No Current Action—11

DOE Technical Standards Project Initiated

If you have any questions or are interested in participating in the development of this standard, please contact the representative listed below. Complete listings of all DOE Technical Standards projects and their status are given on the Technical Standards Program (TSP) Web Site (<http://tis.eh.doe.gov/techstds/>). To access these lists from the home page, click on "DOE Technical Standards," then click on "Projects" in the left-hand frame to show the links to the project lists.

The following DOE Technical Standards project was recently initiated:

- *Facility Representative Functional Area Qualification Standard*, Project Number TRNG-0019, M. Norman Schwartz, EH-53; 301-903-2996, Fax 301-903-6172, Norm.Schwartz@eh.doe.gov.

DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will request specific reviewers to comment on these drafts. The full text of the documents is available on the TSP Web Site. If you wish to comment on this document, please notify your TSM.

The following draft DOE Technical Standards were recently distributed for coordination.

- *Evaluating a Lubrication Program Using the Lubricant Cycle*, Project Number MNTY-0026, Charles B. Ramsey, U.S. Department of Energy, EH-53, 19901 Germantown Road, Germantown, Maryland 20874-1290; 301-903-5999, Fax: 301-903-6172, Chuck.Ramsey@eh.doe.gov. Comments are due September 7, 2001.
- *Safety and Health Program for DOE Construction Projects*, Project Number OCSH-0003; Contact: Pat Finn, U.S. Department of Energy, EH-52, 19901 Germantown Road, Germantown, Maryland 20874-1290; 301-903-9876; Fax 301-903-6172, Pat.Finn@eh.doe.gov. Comments are due August 31, 2001. Participations by DOE Area Offices, laboratories, and M&O contractors should be coordinated through your organization's representative on the DOE Construction Safety Advisory Committee. The committee's membership roster is available at <http://tis-nt.eh.doe.gov/whs/TechComm/csacmemb.html>.

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DOE Technical Standard Recently Reaffirmed

If you have any questions about this action, please contact the person listed below.

The following DOE Technical Standard has been reaffirmed.

- DOE-HDBK-1081-94, *Primer on Spontaneous Heating and Pyrophoricity*

The reaffirmation notification process for this standard has been completed in accordance with the Technical Standards Program Procedures. Please direct any questions or comments to Norm Schwartz, EH-53, 301-903-2996, Norm.Schwartz@eh.doe.gov.

DOE Technical Standards Recently Published

DOE employees and DOE contractors may obtain copies of recently published standards from the ES&H Technical Information Services, U.S. Department of Energy; 1-800-473-4375, Fax 301-903-9823.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; 703-605-6000, Fax 703-605-6900.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies (no hardcopies are produced) are available on the ANSI Web site at http://web.ansi.org/rooms/room_14/. Electronic back copies are available to ANSI members only. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, contact Susan Bose at 212-642-4948 or sbose@ansi.org.

Hardcopy versions of published non-Government standards listed in this section may be obtained from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, 800-854-7179, Fax 303-397-2740, global@ihs.com, <http://global.ihs.com>. Electronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a more extensive listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Web site, <http://www.ansi.org>, or through the National Standards System Network, <http://www.nssn.org>.

The following American National Standards are currently in coordination (comment due dates follow each entry):

- ANS 8.12-1987, *Plutonium-Uranium Fuel Mixtures Outside Reactors, Nuclear Criticality Control and*

Safety of (reaffirmation of ANSI/ANS 8.12-1987 (R1993)) – August 13, 2001.

- ANS 58.11-1995, *Cooldown Criteria for Light Water Reactors* (reaffirmation of ANSI/ANS 58.11-1995) – August 13, 2001.
- ASHRAE 114-1986, *Energy Management Control Systems Instrumentation* – August 27, 2001.
- ASME B73.1M, *Horizontal End Suction Centrifugal Pumps for Chemical Process, Specifications* (revision of ANSI/ASME B73.1M-1991 (R1999)) – August 13, 2001.
- ASME RA-S-20X, *Probabilistic Risk Assessment for Nuclear Power Plant Applications* (new standard) – September 11, 2001.
- ASSE Z590.2, *Scope and Functions of the Professional Safety Position* (new standard) – August 13, 2001.
- ASSE Z590.4, *Basic Format for Preparation of Resume (CVs) of Safety Professionals* (new standard) – August 13, 2001.
- AWS D1.1/D1.1M, *Structural Welding Code Steel* (revision of ANSI/AWS D1.1-2000) – August 13, 2001.
- B11.22, *Safety Requirements for Numerically Controlled Turning Machines* (new standard) – August 13, 2001.
- B11.23, *Safety Requirements for Machining Centers* (new standard) – August 13, 2001.
- B11.24, *Safety Requirements for Transfer Machines* (new standard) – August 13, 2001.
- BHMA A156.29, *Exit Locks, Exit Locks With Exit Alarms, Exit Alarms, Alarms for Exit Devices* (new standard) – August 13, 2001.
- IEEE 242, *IEEE Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems* (revision of ANSI/IEEE 242-1986 (R1991)) – September 25, 2001.
- IEEE 505-1977 (R1996), *Nomenclature for Generating Station Electric Power Systems* (reaffirmation of ANSI/IEEE 505-1977 (R1996)) – September 25, 2001.
- N14.1-2000 Addendum 1a, *Uranium Hexafluoride—Packaging for Transport, Addendum 1a* (supplement to ANSI N14.1-2000) – August 13, 2001.
- N14.30-1992, *Nuclear Materials—Semi-Trailers Employed in the Highway Transport of Weight-*

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Concentrated Radioactive Loads—Design, Fabrication, and Maintenance (reaffirmation of ANSI N14.30-1992) – September 25, 2001.

- NEMA ICS 8-1996, *Industrial Control and Systems Crane and Hoist Controllers* (revision of ANSI/NEMA ICS 8-1996) – September 10, 2001.
- NFPA 72, *National Fire Alarm Code®* (revision of ANSI/NFPA 72-1999) – October 5, 2001.
- NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems* (revision of ANSI/NFPA 90A-1999) – October 5, 2001.
- NFPA 90B, *Standard for the Installation of Warm Air Heating and Air-Conditioning Systems* (revision of ANSI/NFPA 90B-1999) – October 5, 2001.
- NFPA 170, *Standard for Fire Safety Symbols* (revision of ANSI/NFPA 170-1999) – October 5, 2001.
- NSF 60 (i15r2), *Drinking Water Treatment Chemicals Health Effects* (revision of ANSI/NSF 60-2000) – August 13, 2001.
- NSF 60 (i17r2.1), *Drinking Water Treatment Chemicals Health Effects* (revision of ANSI/NSF 60-2000) – August 13, 2001.
- UL 555, *Standard for Safety for Fire Dampers* (new standard) – September 11, 2001.
- UL 555S, *Standard for Safety for Smoke Dampers* (new standard) – September 11, 2001.
- UL 1569, *Standard for Safety for Metal-Clad Cables* (revision of ANSI/UL 1569-2000) – September 25, 2001.
- UL 1995, *Standard for Safety for Heating and Cooling Equipment* (revision of ANSI/UL 1995-1999) – September 25, 2001.
- UL 1821, *Standard for Safety for Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service* (new standard) – September 11, 2001.

The following American National Standards have been approved for publication (Publication is to take place within six months following the date shown. Publication status and ordering information may be obtained from ANSI's Customer Service at 212-642-4900.):

- ANSI C2-2002, *National Electrical Safety Code* (revision of ANSI C2-1997) – June 14, 2001.
- ANSI Z490.1-2001, *Accepted Practices for Safety, Health, and Environmental Training* (new standard) – July 2, 2001.

- ANSI/ASME A120.1-2001, *Safety Requirements for Powered Platforms for Building Maintenance* (revision of ANSI/ASME A120.1-1996) – July 3, 2001.
- ANSI/ASTM D4382-01, *Test Method for Barium in Water, Atomic Absorption Spectrophotometry, Graphite Furnace* (new standard) – May 10, 2001.
- ANSI/ASTM D4922-01, *Test Method for Determination of Radioactive Iron in Water* (new standard) – May 10, 2001.
- ANSI/ASTM D5072-01, *Test Method for Radon in Drinking Water* (new standard) – May 10, 2001.
- ANSI/ASTM D5174-01, *Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry* (new standard) – May 10, 2001.
- ANSI/ASTM D5245-01, *Practice for Cleaning Laboratory Glassware, Plasticware, and Equipment Used in Microbiological Analyses* (new standard) – May 10, 2001.
- ANSI/ASTM D5411-01, *Practice for Calculation of Average Energy per Disintegration (E) for a Mixture of Radionuclides in Reactor Coolant* (new standard) – May 10, 2001.
- ANSI/ASTM D6239-01, *Test Method for Uranium in Drinking Water by High-Resolution Alpha-Liquid-Scintillation Spectrometry* (new standard) – May 22, 2001.
- ANSI/ASTM E1725-95 (R01), *Test Methods for Fire Tests of Fire Resistive Barrier Systems for Electrical System Components* (reaffirmation of ANSI/ASTM E1725-95) – July 3, 2001.
- ANSI/ASTM E2051-01, *Practice for Determination of Lead in Paint, Settled Dust, Soil and Air Particulate by Field-Portable Electroanalysis* (revision of ANSI/ASTM E2051-99) – May 10, 2001.
- ANSI/ASTM F660-01, *Practice for Comparing Particle Size in the Use of Alternative Types of Particle Counters* (new standard) – May 10, 2001.
- ANSI/AWS A3.0-2001, *Standard Welding Terms and Definitions, Including Terms for Adhesive Bonding, Brazing, Soldering, Thermal Spraying, and Thermal Cutting* (revision of ANSI/AWS A3.0-94) – July 2, 2001.

The following international standards are currently in coordination (comment due dates follow each entry):

- ISO/DIS 10705-3, *Water quality – Detection and enumeration of bacteriophages – Part 3: Validation of methods for concentration of bacteriophages from water* – October 13, 2001.

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- ISO/DIS 15680, *Water quality – Determination of certain monocyclic aromatic hydrocarbons, naphthalene and chlorinated compounds – Gas-chromatographic method using purge and trap and thermal desorption* – October 6, 2001.
- ISO/DIS 16602, *Clothing for protection against chemicals – Classification, labeling and performance requirements* – October 13, 2001.
- prEN 54-10, *Fire detection and fire alarm systems—Part 10: Flame detectors—Point detectors* (for information).
- prEN 54-14, *Fire detection and fire alarm systems—Part 14: Guidelines for planning, design, installation, commissioning, use and maintenance* – July 23, 2001.
- prEN 1149-3, *Protective clothing—Electrostatic properties—Part 3: Test methods for measurement of charge decay* – October 10, 2001.
- prEN 13478, *Safety of machinery—Fire prevention and protection* (for information).
- prEN 14211, *Ambient air quality—Measurement method for the determination of the concentration of nitrogen dioxide and nitrogen monoxide by chemiluminescence* – October 24, 2001.
- prEN 14212, *Ambient air quality—Measurement method for the determination of the concentration of sulphur dioxide by ultraviolet fluorescence* – October 17, 2001.
- prEN ISO 19011, *Guidelines for quality and/or environmental management systems auditing* (ISO/DIS 19011:2001) – September 30, 2001.

The following newly published international standards are available:

- IEC 61584 Ed. 1.0 b:2001, *Radiation protection instrumentation—Installed, portable or transportable assemblies—Measurement of air kerma direction and air kerma rate*.
- IEC 62088 Ed. 1.0 b:2001, *Nuclear instrumentation—Photodiodes for scintillation detectors—Test procedures*.
- IEC 62089 Ed. 1.0 b:2001, *Nuclear instrumentation—Calibration and usage of alpha/beta gas proportional counters*.
- ISO 5658-4:2001, *Reaction to fire tests—Spread of flame—Part 4: Intermediate-scale test of vertical spread of flame with vertically oriented specimen*.

- ISO 11929-4:2001, *Determination of the detection limit and decision threshold for ionizing radiation measurements—Part 4: Fundamentals and application to measurements by use of linear-scale analogue ratemeters, without the influence of sample treatment*.
- ISO 11933-4:2001, *Components for containment enclosures—Part 4: Ventilation and gas-cleaning systems such as filters, traps, safety and regulation valves, control and protection devices*.
- ISO 16702:2001, *Workplace air quality—Determination of total isocyanate groups in air using 2-(1-methoxyphenyl) piperazine and liquid chromatography*.
- ISO 18115:2001, *Surface chemical analysis—Vocabulary*.
- ISO/TR 10013:2001, *Guidelines for quality management system documentation*.

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

Acoustical Society of America

Office: 35 Pinelawn Road, Suite 114E
Mellville, NY 11747

Fax: 631-390-0217

Contact: Susan Blaeser, sblaeser@aip.org

- S3.48, *Impulse Noise with Respect to Hearing Hazard* (new standard).
- S3.49, *Human Response to Repetitive Mechanical Shock* (new standard).

Institute of Electrical and Electronics Engineers

Office: 445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Fax: 732-562-1571

Contact: Naeem Ahmad, n.ahmad@ieee.org

- IEEE 497, *Standard Criteria for Accident Monitoring Instrumentation for Nuclear Generating Stations* (new standard).

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- IEEE 1586, *Recommended Practice for Human Interactions With Operating Experience Programs for Nuclear Facilities* (new standard).
- IEEE 1587, *Principles of Qualitative Risk Management for Nuclear Facilities* (new standard).

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (Fax 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (Fax 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (Fax 610-832-9666). Additional information on ASTM activities is available on the ASTM Web site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination (the due date for all items is August 10, 2001):

- D 2665-00, *Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings* (revised standard).
 - D 3675-98, *Test Method for Surface Flammability of Flexible Cellular Materials Using a Radiant Heat Energy Source* (revised standard).
 - D 4448-85A(1992), *Guide for Sampling Groundwater Monitoring Wells* (revised standard).
 - D 4547-98 (Includes change to title), *Practice for Sampling Waste and Soils for Volatile Organics* (revised standard).
 - D 5792-95, *Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives* (revised standard).
 - New Standard, *Guide for Qualification of Spectrophotometric Instruments for Molecular Spectroscopy* (Ref. Z8016Z).
 - New Standard, *Terminology Relating to Performance Validation in Thermal Analysis* (Ref. Z8656Z).
 - New Standard, *Practice for Low-Flow Purging and Sampling of Ground-Water Monitoring Wells Associated with Waste Management Activities*.
- The following newly published standards are available from ASTM:**
- C 1168-01, *Practice for Preparation and Dissolution of Plutonium Materials for Analysis* (revised standard).
 - C 1411-01, *Practice for the Ion Exchange Separation of Uranium and Plutonium Prior to Isotopic Analysis* (revised standard).
 - C 1414-01, *Practice for the Separation of Americium from Plutonium by Ion Exchange* (revised standard).
 - C 1490-01, *Guide for the Selection, Training and Qualification of Nondestructive Assay (NDA) Personnel* (new standard).
 - D 6640-01, *Practice for Collection and Handling of Soils Obtained in Core Barrel Samplers for Environmental Investigations* (new standard).
 - E 10-01, *Test Method for Brinell Hardness of Metallic Materials* (revised standard).
 - E 275-01, *Practice for Describing and Measuring Performance of Ultraviolet, Visible, and Near-Infrared Spectrophotometers* (revised standard).
 - E 317-01 (Includes change to title), *Practice for Evaluating Performance Characteristics of Ultrasonic Pulse-Echo Examination Instruments and Systems Without the Use of Electronic Measurement Instruments* (revised standard).
 - E 334-01, *Practice for General Techniques of Infrared Microanalysis* (revised standard).
 - E 381-01, *Method of Macroetch Testing Steel Bars, Billets, Blooms, and Forgings* (revised standard).
 - E 647-00, *Test Method for Measurement of Fatigue Crack Growth Rates* (revised standard).
 - E 1231-01, *Practice for Calculation of Hazard Potential Figures-of-Merit for Thermally Unstable Materials* (revised standard).
 - E 1269-01, *Test Method for Determining Specific Heat Capacity by Differential Scanning Calorimetry* (revised standard).
 - E 1444-01, *Practice for Magnetic Particle Examination* (revised standard).

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- E 1623-01, *Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL)* (revised standard).
- E 2113-00, *Test Method for Length Change Calibration of Thermomechanical Analyzers* (new standard).
- E 2116-00, *Practice for Dosimetry for a Self-Contained Dry-Storage Gamma-Ray Irradiator* (new standard).
- F 496-01, *Specification for In-Service Care of Insulating Gloves and Sleeves* (revised standard).
- F 2084-01, *Guide for Collecting Containment Boom Performance Data in Controlled Environments* (new standard).

Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-53, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, Fax 301-903-6172, Richard.Serbu@eh.doe.gov.

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Addresses: *Standards Actions* and *The Standards Forum* are electronic newsletters available on the TSP Web Site (<http://tis.eh.doe.gov/techstds/>). To update your mailing and e-mail addresses, please contact Amy Bush, ORNL, 865-576-2395, Fax 865-574-8481, bushar@ornl.gov.

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Technical Standards Activities: The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 865-576-2395, bushar@ornl.gov.

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Please note: The building number, mail stop, and fax number for the TSPO at ORNL have changed. The building number is 9204-1, mail stop 8051; the fax number is 865-574-8481.